Performance Data Sheet

RGA5460EXA

General Information

Model	RGA5460EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2170	1840					
	Watts	269	332					
	Amps	2.90	3.05					
	Lb/h	28.1	24.7					
-10	Btu/h	2410	2080	1860				
	Watts	265	328	373				
	Amps	2.91	3.08	3.26				
	Lb/h	31.0	27.8	26.0				
-5	Btu/h	2700	2360	2140	1990			
	Watts	264	327	374	406			
	Amps	2.93	3.11	3.32	3.53			
	Lb/h	34.5	31.3	29.6	28.8			
0	Btu/h	3040	2690	2460	2290	2160		
	Watts	264	328	376	411	436		
	Amps	2.94	3.13	3.36	3.60	3.83		
	Lb/h	38.5	35.4	33.7	32.9	32.4		
5	Btu/h	3430	3060	2810	2630	2480		
	Watts	267	331	380	417	445		
	Amps	2.96	3.16	3.40	3.67	3.94		
	Lb/h	43.1	40.0	38.3	37.5	37.0		
10	Btu/h	3870	3480	3210	3010	2840	2660	2420
	Watts	272	336	385	424	455	481	506
	Amps	2.97	3.18	3.44	3.74	4.03	4.31	4.54
	Lb/h	48.3	45.2	43.4	42.6	41.9	41.1	39.4
15	Btu/h	4360	3950	3650	3430	3230	3030	2770
	Watts	277	341	391	432	466	496	525
	Amps	2.99	3.20	3.47	3.79	4.12	4.44	4.73
	Lb/h	54.0	50.9	49.1	48.1	47.4	46.4	44.6
20	Btu/h	4900	4460	4130	3880	3660	3430	3140
	Watts	282	346	398	440	476	510	544
	Amps	3.00	3.21	3.50	3.84	4.20	4.56	4.90
	Lb/h	60.3	57.1	55.2	54.1	53.2	52.1	50.2

25	Btu/h	5490	5020	4660	4380	4130	3860	3540
	Watts	288	352	404	448	487	524	563
	Amps	3.02	3.23	3.52	3.88	4.27	4.67	5.05
	Lb/h	67.3	63.9	61.8	60.6	59.6	58.3	56.1
30	Btu/h	6140	5630	5240	4920	4630	4320	3960
	Watts	294	357	409	455	496	537	580
	Amps	3.04	3.24	3.54	3.92	4.33	4.76	5.19
	Lb/h	74.8	71.2	69.0	67.5	66.3	64.8	62.4
35	Btu/h	6850	6300	5860	5500	5170	4820	4420
	Watts	298	361	414	460	504	548	596
	Amps	3.06	3.26	3.56	3.94	4.38	4.85	5.31
	Lb/h	82.9	79.1	76.7	75.0	73.6	71.8	69.2
40	Btu/h	7610	7020	6540	6130	5750	5360	4910
	Watts	302	363	417	465	511	558	609
	Amps	3.08	3.27	3.57	3.97	4.42	4.92	5.43
	Lb/h	91.6	87.6	84.9	83.0	81.3	79.2	76.3
45	Btu/h	8430	7790	7260	6800	6370	5930	5430
	Watts	303	364	417	467	515	565	621
	Amps	3.10	3.28	3.58	3.98	4.46	4.98	5.52
	Lb/h	101	96.7	93.8	91.5	89.5	87.1	83.8
50	Btu/h	9310	8610	8030	7520	7030	6540	5990
	Watts	303	363	416	466	516	569	629
	Amps	3.13	3.29	3.59	4.00	4.48	5.03	5.61
	Lb/h	111	106	103	101	98.2	95.5	91.8
55	Btu/h	10300	9500	8850	8280	7740	7190	6580
	Watts	299	358	412	463	515	571	634
	Amps	3.15	3.30	3.59	4.00	4.50	5.07	5.68
	Lb/h	122	117	113	110	107	104	100

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.506786E+04	-1.207465E+03	5.754076E+00	1.802710E+02
C2	9.516904E+01	7.082256E+00	5.710226E-02	7.133711E-01
C3	-3.040725E+02	3.288167E+01	-1.140114E-01	-3.728639E+00
C4	1.664385E+00	5.636962E-02	4.101242E-04	1.678549E-02
C5	-2.886219E-01	-1.613053E-01	-1.456269E-03	2.967855E-03
C6	2.489619E+00	-2.233065E-01	1.324137E-03	3.178409E-02
C7	1.526211E-03	-6.016069E-04	2.948911E-07	1.193140E-05
C8	-8.540392E-03	-2.354343E-04	-5.105193E-06	-7.084305E-05
C9	8.093584E-05	9.709267E-04	9.732435E-06	-1.368844E-05
C10	-7.100555E-03	5.284135E-04	-4.231175E-06	-9.151618E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature